

# Pure Sine Wave Solar Inverter PV5000 Series (3KW-5KW)

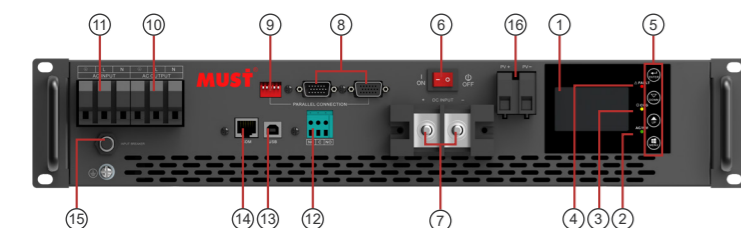


- ### Features
- Pure sine wave inverter
  - Configurable input voltage range for home appliances and personal computers via LCD setting
  - Configurable battery charging current based on applications via LCD setting
  - Configurable AC/Solar Charger priority via LCD setting
  - Compatible to mains voltage or generator power
  - Auto restart while AC is recovering
  - Overload/ Over temperature/ short circuit protection
  - Smart battery charger design for optimized battery performance
  - Cold start function
  - Built-in MPPT solar charge controller 80A

### Introduction

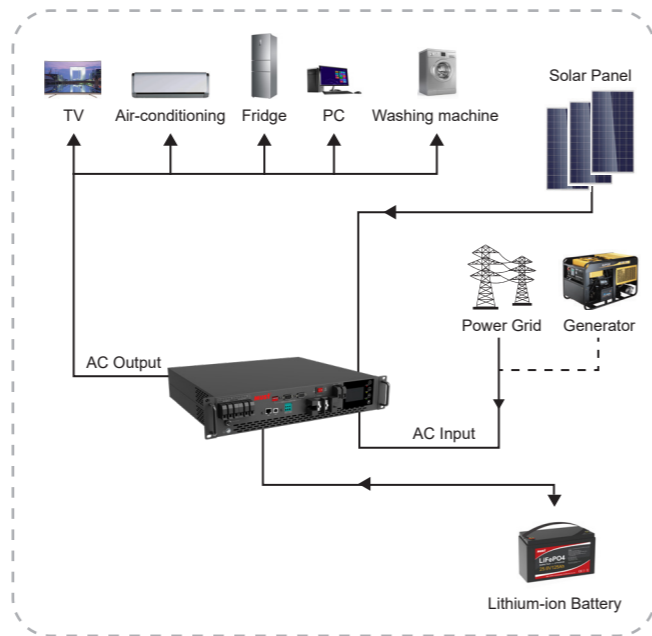
This is a multi-function inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

### Back panel printing description



1. LCD display
2. Status indicator
3. Charging indicator
4. Fault indicator
5. Function buttons
6. Power on/off switch
7. Battery input
8. Parallel communication port (only for parallel mode)
9. Parallel switch
10. AC output
11. AC input
12. Dry contact
13. USB
14. RS485 communication port
15. Circuit breaker
16. PV Input

### Solar system connection



### Specification

| MODEL                          |                                       | PV50-3K  | PV50-4K | PV50-5K |
|--------------------------------|---------------------------------------|--|---------|---------|
| Nominal Battery System Voltage |                                       | 48V  |         |         |
| INVERTER OUTPUT                | Rated Output Power                    | 3KW  | 4KW     | 5KW     |
|                                | Surge Power                           | 6KW  | 8KW     | 10KW    |
|                                | Waveform                              | Pure Sine Wave   |         |         |
|                                | Power factor                          | 1  |         |         |
|                                | Output Voltage Regulation             | 230Vac±5%  |         |         |
|                                | Inverter Efficiency(Peak)             | 90%  |         |         |
|                                | Transfer Time                         | 10ms typical (UPS / VDE4105) 20ms typical (APL)          |         |         |
|                                | AC INPUT                              |  | 230VAC  |         |
| Selectable voltage range       |                                       | 170~280VAC (UPS) , 90~280VAC (APL) , 184~253VAC(VDE4105) |         |         |
| Input Voltage Waveform         |                                       | Sinusoidal (utility or generator)                        |         |         |
| Frequency Range                |                                       | 50Hz / 60Hz  |         |         |
| SOLAR CHARGER & AC CHARGER     | Maximum PV Array Open Circuit Voltage | 145VDC   |         |         |
|                                | MPPT Range @ Operating Voltage        | 60~130VDC  |         |         |
|                                | Standby Power Consumption             | 2W   |         |         |
|                                | Maximum PV Array Power                | 4000W  |         |         |
|                                | Maximum PV Charge Current:            | 80A  |         |         |
|                                | Maximum Efficiency                    | 98%  |         |         |
|                                | Maximum AC Charge Current             | 60A  |         |         |
|                                | Maximum Charge Current(PC+AC)         | 80A  |         |         |
| MECHANICAL SPECIFICATIONS      | Dimension (D*W*H), mm                 | 400*468*86.3   |         |         |
|                                | Package Dimensions (W*H*D)            | /  |         |         |
| OTHER                          | Safety Certification                  | CE   |         |         |
|                                | Operating Temperature Range           | -10°C to 40°C  |         |         |
|                                | Storage temperature                   | -15°C~ 60°C  |         |         |